Type KVII/F
Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

APPLICATION AREA

> Gas firing systems on steam boilers
  acc. to DIN EN12952/12953
> Industrial thermoprocessing equipment
  acc. to DIN EN 746
> Pipe systems for fluids and gaseous media
  for all industrial sectors

ADVANTAGE

> Closing time < 1 sec
> High safety level through zero leakage
> Heavy duty design for high operating cycles
> High performance valve design for long service life
safe and reliable

Type KVII/F

Quick-Closing Valve for Gaseous Media
Electro-Pneumatic Operated

DN 2½”-12” ANSI 150 lbs

APPLICATION

> Automatic operated emergency shutdown device
> In gas pipes in front of burner acc. to DIN EN12952/12953
> Safety and control device for gas burner
> Automatic shut-off valve in piping systems

TECHNICAL DATA

> Single-seated straight-through globe valve acc. to ANSI standard
> Stem sealing acc. to TA-Luft, stainless steel bellow with additional lip seal and connection for tightness test
> Exchangeable plug gasket
> Maintenance-free guide bushing
> Additional sealing force generated through primary pressure loaded onto the valve plug
> Piston actuator with integrated closing spring

CERTIFICATES

EC-Type examination (Modul B)
acc. to directive 2014/68/EU
EC- Type examination certificate with product-identnumber
acc. to gas appliance regulation EU/2016/426
based on:
DIN EN 13611 / DIN EN 161 / DIN EN 16678
Certificate:
> TA-Luft
  DIN EN ISO 15848-1 VDI 2440
> SIL2 / EN 61508
> Fire-safe
  DIN EN ISO 10497 / API 607

OPERATING DATA

Media:  > Gaseous fuels acc. to PED 2014/68/EU
  > Fuels acc. to G260; gas group 1., 2. and 3
  > Other gaseous media

Operating pressure:  Max. 12 bar g
Operating temperature:  -29 to 180 °C
Ambient temperature:  -29 to 80 °C
Control medium:  Compressed air at 4-8 bar g
Air quality:  acc. to DIN ISO 8573-1
Control voltage:  230 V, 50 Hz, 24 V DC
Power:  10.6 VA / 6.8 W
IP Protection Class:  IP 65
Mounting position:  no restriction
Mounting location:  Indoor/Outdoor

OPTION

> Quick-closing valve with integrated control characteristic for soft opening
> Combination with electro-pneumatic positioner for selective flow control

REMARKS

Acc. to DIN EN12952/12953 it is advised to install strainer in front of shut off valve. (Kühme SF / SFY)
**Safe and Reliable**

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**Electro-Pneumatic Operated**

**DN 2½”-12” ANSI 150 lbs**

### Dimensions

<table>
<thead>
<tr>
<th>ANSI</th>
<th>bar g</th>
<th>Ø mm</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>max. operating pressure</td>
<td>Actuator</td>
<td>L</td>
</tr>
<tr>
<td>2½</td>
<td>8,0</td>
<td>150</td>
<td>216</td>
</tr>
<tr>
<td>2½</td>
<td>12,0</td>
<td>200</td>
<td>216</td>
</tr>
<tr>
<td>3</td>
<td>5,0</td>
<td>150</td>
<td>241</td>
</tr>
<tr>
<td>3</td>
<td>12,0</td>
<td>200</td>
<td>241</td>
</tr>
<tr>
<td>4</td>
<td>3,0</td>
<td>150</td>
<td>292</td>
</tr>
<tr>
<td>4</td>
<td>12,0</td>
<td>200</td>
<td>292</td>
</tr>
<tr>
<td>6</td>
<td>1,0</td>
<td>150</td>
<td>406</td>
</tr>
<tr>
<td>6</td>
<td>3,5</td>
<td>200</td>
<td>406</td>
</tr>
<tr>
<td>6</td>
<td>6,0</td>
<td>250</td>
<td>406</td>
</tr>
<tr>
<td>8</td>
<td>1,5</td>
<td>200</td>
<td>495</td>
</tr>
<tr>
<td>8</td>
<td>3,5</td>
<td>250</td>
<td>495</td>
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<tr>
<td>8</td>
<td>6</td>
<td>300</td>
<td>495</td>
</tr>
<tr>
<td>10</td>
<td>2,0</td>
<td>250</td>
<td>622</td>
</tr>
<tr>
<td>10</td>
<td>3,0</td>
<td>300</td>
<td>622</td>
</tr>
<tr>
<td>12</td>
<td>1,25</td>
<td>250</td>
<td>698</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>300</td>
<td>698</td>
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</tbody>
</table>

*Max. Functional pressure with compressed air 4 bar g;
Flange dimensions acc. to ASME B16.5*

### Parameter

<table>
<thead>
<tr>
<th>Nominal diameter DN</th>
<th>2½</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Service pressure (PSI) in bar g</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>6</td>
<td>6</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Rating ANSI Class</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>kₚₚ - value m³/h (max.)</td>
<td>72</td>
<td>108</td>
<td>170</td>
<td>376</td>
<td>655</td>
<td>1030</td>
<td>1460</td>
</tr>
<tr>
<td>Closing time</td>
<td>&lt; 1 Second</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>QTY</th>
<th>Accessories</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Quick venting valve</td>
</tr>
<tr>
<td>1</td>
<td>3/2-way solenoid valve, directly actuated, pressure 0 to 8 bar</td>
</tr>
<tr>
<td>2</td>
<td>Limit switch as mechanical cam switch or proximity switch</td>
</tr>
<tr>
<td>1</td>
<td>Protection cover, transparent, for limit switch and optical position indication</td>
</tr>
</tbody>
</table>

### Materials

**Body:** A 216 WCB

**Valve seat:** cladded with 1.4551

**Plug gasket:** Elastomer

**Bellow:** 1.4541

**Stem:** 1.4021

**Actuator:** Steel/Aluminium

**Sealing Parts:** Elastomer

* Other materials and accessories are available on request.
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- 10.10 Body
- 10.40 O-Ring
- 10.50 Plug
- 10.50.60 Plug gasket
- 15.30 O-Ring
- 20.05 O-Ring
- 20.15 Bonnet
- 20.30 Stem with bellow
- 20.40 O-Ring
- 20.50 Lip seal
- 20.60 Guide bushing
- 30.10 Actuator body
- 30.55 O-Ring
- 30.70 Compression spring
- 30.110 O-Ring
- 30.120 T-DUO Sleeve
- 30.130 O-Ring
- 30.140 O-Ring
- 30.150 O-Ring
- 30.160 DU-Bushing
- 30.170 DU-Bushing
- 40.10 Protection cover
- 40.20 Limit switch
- 50.10 3/2-way solenoid valve
- 50.20 Quick Venting Valve
- Spares